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The invention relates to a data recording device comprising microtips and a recording medium. The recording medium comprises a substrate with a preferably-carbon resistive layer disposed thereon, said resistive layer being covered with an active layer. According to the invention, the aforementioned active layer can pass from a first electrical resistivity value to a second electrical resistivity value when a voltage is applied between the microtips and a counter electrode. The inventive data recording device also comprises at least one carbon resistive element which is disposed between the active layer and the microtips.